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Term:

(incomplete call same notification apparatus)

and (telephone switch same monitoring operation)

and (interrogation unit same call data same

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L2

(incomplete call same notification apparatus) and (telephone switch same monitoring operation) and (interrogation unit same call data same called party) and (database same aggregation unit) and (forwarding unit same database same retrieval) and (aggregator same comparator same single item)

1

L2L1

(incomplete call same notification apparatus) and (telephone switch same monitoring operation) and (interrogation unit same call data same called party) and (database same aggregation unit) and (comparator same stored call data) and (aggregator same comparator same single item)

2

L1

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L2: Entry 1 of 1

File: PGPB

Mar 31, 2005

DOCUMENT-IDENTIFIER: US 20050069109 A1
TITLE: Incomplete call notification

Abstract Paragraph:

A method and apparatus for providing a telephone subscriber with data of uncompleted calls. A determination unit detects an uncompleted call by receiving a signal from a telephone switch or by monitoring the operation of the network exchange switch. The switch is then interrogated to provide the call details. The data is stored in a format for forwarding to the called party.

Summary of Invention Paragraph:

[0009] According to one aspect of the present invention there is provided incomplete call notification apparatus comprising:

Summary of Invention Paragraph:

[0010] a determination unit for detecting an uncompleted call by at least one of receiving a signal from a telephone switch and monitoring operation of said switch,

Summary of Invention Paragraph:

[0011] an interrogation unit for obtaining, from the switch, call data of the uncompleted call, the call being to a given called party, and

Summary of Invention Paragraph:

[0013] According to a second aspect of the present invention there is provided incomplete call notification apparatus comprising:

Summary of Invention Paragraph:

[0022] an aggregation unit, associated with the database and comprising:

Summary of Invention Paragraph:

[0024] an aggregator, associated with the comparator, for arranging the current call identification information together with any already stored caller identification information identified by the comparator as a single item, and

Detail Description Paragraph:

[0059] Referring now to the drawings, FIG. 1 illustrates an embodiment of an incomplete call notification apparatus according to the present invention. A telephone 10 is connected to a telephone exchange switch 12 in the normal way. For example, the telephone 10 may be a standard wireline telephone connected to the Public Switched Telephone Network (PSTN) and the switch 12 may be any switch forming part of the PSTN.

Detail Description Paragraph:

[0069] Data of the incomplete call as received by the database logic 18 using the protocol 32, is then written into the database 16 via a forwarding unit. The described embodiment, the forwarding unit is database read-write interface 34. A preferred feature of the present embodiments is an aggregation unit 36 which is designed to ensure that multiple calls from the same source are stored as a single

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16 and L7

Term:

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<u>L6</u>	14 and L5	6	<u>L6</u>
<u>L5</u>	compar\$4 and call data	5587	<u>L5</u>
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<u>L3</u>	uncomplet\$3 call and notif\$7	56	<u>L3</u>
<u>L2</u>	forward\$3 and called party	9090	<u>L2</u>
<u>L1</u>	uncomplet\$3 call same notif\$7	25	<u>L1</u>

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